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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/519,728

DATE: 03/27/2000
 TIME: 15:41:54

Input Set: I519728.RAW

**This Raw Listing contains the General Information
 Section and up to first 5 pages.**

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1  <110> APPLICANT: Weintraub, Bruce D.
2      Szkudlinski, Mariusz
3  <120> TITLE OF INVENTION: MUTANTS OF THYROID STIMULATING HORMONE
4      AND METHODS BASED THEREON
5  <130> FILE REFERENCE: UOFMD.002C1
6  <140> CURRENT APPLICATION NUMBER: US/09/519,728
7  <141> CURRENT FILING DATE: 2000-03-03
8  <150> EARLIER APPLICATION NUMBER: 60/135,505
9  <151> EARLIER FILING DATE: 1998-09-17
10 <150> EARLIER APPLICATION NUMBER: 08/939,472
11 <151> EARLIER FILING DATE: 1997-09-22
12 <160> NUMBER OF SEQ ID NOS: 4
13 <170> SOFTWARE: FastSEQ for Windows Version 4.0
14 <210> SEQ ID NO 1
15 <211> LENGTH: 91
16 <212> TYPE: PRT
17 <213> ORGANISM: Homo sapiens
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21     Phe Phe Ser Gln Pro Gly Ala Pro Ile Leu Gln Cys Met Gly Cys Cys
22             20             25             30
23     Phe Ser Arg Ala Tyr Pro Thr Pro Leu Arg Ser Lys Lys Thr Met Leu
24             35             40             45
25     Val Gln Lys Asn Val Ser Glu Ser Thr Cys Cys Val Ala Lys Ser Tyr
26             50             55             60
27     Asn Arg Val Thr Val Met Gly Gly Phe Lys Val Glu Asn His Thr Ala
28             65             70             75             80
29     Cys His Cys Ser Thr Cys Tyr Tyr His Lys Ser
30             85             90
31 <210> SEQ ID NO 2
32 <211> LENGTH: 118
33 <212> TYPE: PRT
34 <213> ORGANISM: Homo sapien
35 <400> SEQUENCE: 2
36     Phe Cys Ile Pro Thr Glu Tyr Thr Met His Ile Glu Arg Arg Glu Cys
37         1             5             10             15
38     Ala Tyr Cys Leu Thr Ile Asn Thr Thr Ile Cys Ala Gly Tyr Cys Met
39             20             25             30
40     Thr Arg Asp Ile Asn Gly Lys Leu Phe Leu Pro Lys Tyr Ala Leu Ser
41             35             40             45
42     Gln Asp Val Cys Thr Tyr Arg Asp Phe Ile Tyr Arg Thr Val Glu Ile
43             50             55             60
44     Pro Gly Cys Pro Leu His Val Ala Pro Tyr Phe Ser Tyr Pro Val Ala

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45          65          70          75          80
46      Leu Ser Cys Lys Cys Gly Lys Cys Asn Thr Asp Tyr Ser Asp Cys Ile
47          85          90          95
48      His Glu Ala Ile Lys Thr Asn Tyr Cys Thr Lys Pro Gln Lys Ser Tyr
49          100          105          110
50      Leu Val Gly Phe Ser Val
51          115
52 <210> SEQ ID NO 3
53 <211> LENGTH: 530
54 <212> TYPE: DNA
55 <213> ORGANISM: Homo sapien
56 <220> FEATURE:
57 <221> NAME/KEY: CDS
58 <222> LOCATION: (86)...(520)
59 <400> SEQUENCE: 3
60      agacaaggca ggggacgcac caaggatgga gatgttccag gggctgctgc tgttgctgct      60
61      gctgagcatg ggcgggacat gggca tcc aag gag ccg ctt cgg cca cgg tgc      112
62          Ser Lys Glu Pro Leu Arg Pro Arg Cys
63          1          5
64      cgc ccc atc aat gcc acc ctg gct gtg gag aag gag ggc tgc ccc gtg      160
65      Arg Pro Ile Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val
66      10          15          20          25
67      tgc atc acc gtc aac acc acc atc tgt gcc ggc tac tgc ccc acc atg      208
68      Cys Ile Thr Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met
69          30          35          40
70      acc cgc gtg ctg cag ggg gtc ctg ccg gcc ctg cct cag gtg gtg tgc      256
71      Thr Arg Val Leu Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val Cys
72          45          50          55
73      aac tac cgc gat gtg cgc ttc gag tcc atc cgg ctc cct ggc tgc ccg      304
74      Asn Tyr Arg Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro
75          60          65          70
76      cgc ggc gtg aac ccc gtg gtc tcc tac gcc gtg gct ctc agc tgt caa      352
77      Arg Gly Val Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln
78          75          80          85
79      tgt gca ctc tgc cgc cgc agc acc act gac tgc ggg ggt ccc aag gac      400
80      Cys Ala Leu Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp
81          90          95          100          105
82      cac ccc ttg acc tgt gat gac ccc cgc ttc cag gac tcc tct tcc tca      448
83      His Pro Leu Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser
84          110          115          120
85      aag gcc cct ccc ccc agc ctt cca agc cca tcc cga ctc ccg ggg ccc      496
86      Lys Ala Pro Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro
87          125          130          135
88      tcg gac acc ccg atc ctc cca caa taaaggcttc      530
89      Ser Asp Thr Pro Ile Leu Pro Gln
90          140          145
91 <210> SEQ ID NO 4
92 <211> LENGTH: 9
93 <212> TYPE: DNA
94 <213> ORGANISM: Homo sapien

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95 <400> SEQUENCE: 4
96 tcaatccgc

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VERIFICATION SUMMARY
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Line ? Error/Warning

Original Text

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PREVIOUSLY ERRORED SEQUENCES-EDITED

1	<210>	4
2	<211>	9
3	<212>	DNA
4	<213>	Homo sapien
5	<400>	4
6		tcaatccgc

9